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Spring/Summer 2007

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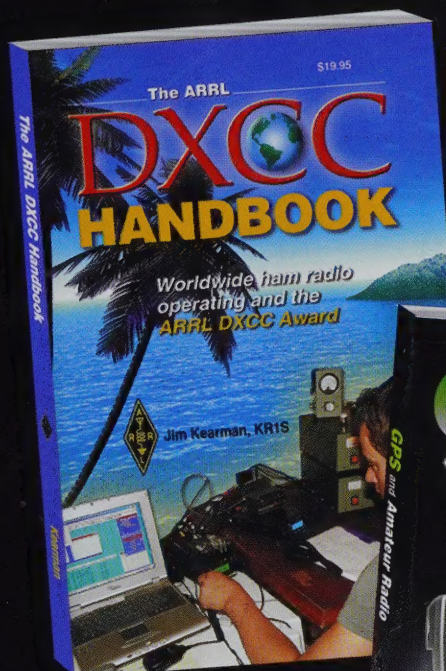
RSGB Catalogue

CD-ROM Collections

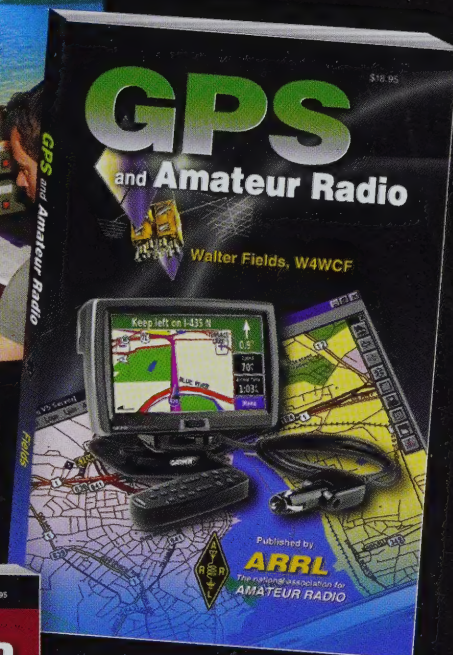
Station Resources

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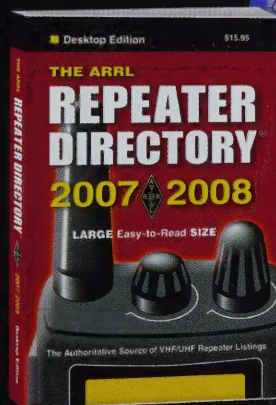
ALL NEW!



NEW!
The ARRL
DXCC Handbook
See page 8



NEW!
GPS and
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ARRL Repeater
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This offer does not apply to ARRL sportswear and merchandise purchased from Barker Specialty Company.

Continuing Education



where hams learn more...

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There's no better time to improve your skills.

- 24/7 – access the content when and where you want.
- High Quality Experience – enhanced graphics and hyperlinks keep the material interesting.
- Online Mentoring – Individually assigned mentors coach each student toward successful completion. (Technician License course offers an online support group)

Be Prepared!

Level 1 – Amateur Radio Emergency Communications – EC-001

Introduction course to raise awareness and provide additional knowledge and tools for any emergency communications volunteer.

Member: \$45 / Non-member: \$75

Suggested Reference:

Amateur Radio Emergency Communications Course, Level I, 3rd Edition

ARRL Order No. 8462 **\$19.95**

Level 2 – Amateur Radio Emergency Communications – EC-002

Intermediate study into amateur radio emergency communications to enhance the skills and knowledge received from previous experience.

Member: \$45 / Non-member: \$75

Suggested Reference:

Amateur Radio Emergency Communications Course, Level II, 3rd Edition

ARRL Order No. 9698 **\$19.95**

Level 3 – Amateur Radio Emergency Communication – EC-003R2

A significant rewrite that brings the course current with the Department of Homeland Security (DHS) paradigm. This course bridges the gap between basic participation and leadership.

Requires prior completion of EC-001 & EC-002.

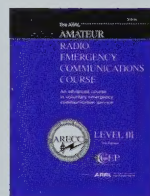
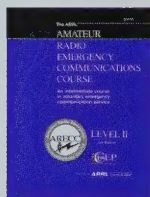
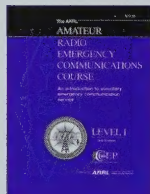
Members \$45.00, non-members \$75.00

Suggested Reference:

Amateur Radio Emergency Communications Course, Level III, 3rd Edition

ARRL Order No. 9736 **\$19.95**

Manuals are not required for online courses, only suggested for reference. They follow the format and content of the courses and enhance the online experience.



ARRL The national association for
AMATEUR RADIO

On Line courses for each class begin every month –
Register at www.arrl.org/cce and improve your skills.

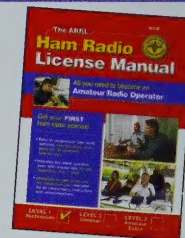
Get it All!

Technician License Course – EC-010

Prepare to take, and pass, the entry-level Amateur Radio license exam. This course includes:

- The ARRL Ham Radio License Manual
- One year ARRL membership including QST magazine every month
- An online graduate support group

Package Price \$69



Additional Courses

Antenna Design and Construction...EC-009

Become familiar with antenna design theory and experience hands-on construction techniques. The course includes several optional antenna construction projects for HF, VHF, and UHF.

Member: \$65 / Non-member: \$95

Antenna Modeling...EC-004

This course is an excellent way to learn the ins and outs and the nitty-gritty details of modeling antennas. In the last decade the science of modeling antennas using computer software has advanced by huge leaps and bounds.

Member: \$85 / Non-member: \$115

HF Digital Communications...EC-005

Understanding HF digital Amateur Radio communications and developing awareness and stronger skills for many HF digital modes.

Member: \$65 / Non-member: \$95

Radio Frequency Propagation...EC-011

Explore the science of RF propagation, including the properties of electromagnetic waves, the atmosphere and the ionosphere, the sun and sunspots, ground waves and sky waves, and various propagation modes.

Member: \$65 / Non-member: \$95

Radio Frequency Interference...EC-006

Learn to identify sources and victims of interference. Tips and suggestions for solutions and for handling those ticklish problems that crop up with difficult neighbors and other aggrieved parties.

Member: \$65 / Non-member: \$95

VHF/UHF—Life Beyond the Repeater...EC-008

An introduction to Internet linking, amateur satellites, direction finding, APRS, weak signals, VHF contesting, microwaves, amateur television, and high speed multimedia radio. Great for both the newly licensed and more experienced hams.

Member: \$65 / Non-member: \$95

Analog Electronics...EC-012

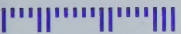
Learn about the use of instrumentation, Kirchoff's Laws, Diodes, Rectifier circuits, Bipolar and Field Effect Transistors, various amplifier configurations, filters, timers, Op-Amps, and voltage regulators. (College-level course.)

Member: \$65 / Non-member: \$95

Digital Electronics...EC-013

Students learn about Basic Boolean, Basic Gates, Flip-Flops, Counters and Shift Registers, Latches, Buffers and Drivers, Encoders and Decoders, Parallel Interfaces, Serial Interfaces, Input Devices, and much more! (College-level course.)

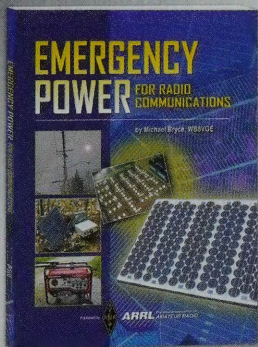
Member: \$65 / Non-member: \$95



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Emergency Communications



Emergency Power for Radio Communications

by Michael Bryce, WB8VGE

#9531 \$19.95

With this comprehensive guide you can explore the various means of electric power generation—from charging batteries, to keeping the lights on. This book covers the foundation of any communications installation — the power source. Use this book to plan ways to stay on the air when weather or other reasons cause a short-term or long-term power outage. **When all else fails...how will you communicate?**

Find ways to reach beyond the commercial power grid. Identify methods for alternative power generation that will work best in your particular situation, perhaps taking advantage of possibilities already on hand.

Tools for...

Emergency or Backup Power!

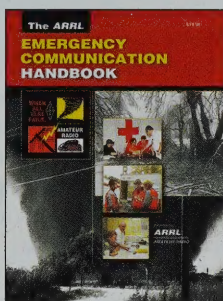
Energy Independence!

Portable Energy!

The ARRL Emergency Communication Handbook

#9388 \$19.95

Includes details on basic emergency communication skills, message handling, ARES, RACES, MARS and other organizations.



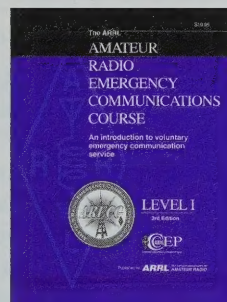
Amateur Radio Emergency Communications Course Books

For use with ARRL online courses, www.arrl.org/cce.

Level I #8462 \$19.95

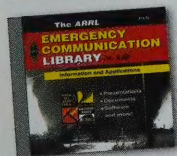
Level II #9698 \$19.95

Level III #9736 \$19.95



The ARRL Emergency Communication Library

NEW!



CD-ROM, version 1.0

#9868 \$19.95

Contains documents and presentations on many aspects of emergency radio communication operating.

ARES® Field Resources Manual

#5439 \$12.95

A quick trainer and field resource guide for the emergency communicator.



Visit www.arrl.org/shop for t-shirts, stickers, patches, and more.

Radio Communications Vest

Orange #9405 \$14.95

Green #9984 \$14.95

Great for ARES volunteers, emergency and public service use. **One size fits most!** 18-1/2 inches wide by 23 inches long. The reflective panels are 4 x 16-inches.



ARES Magnetic Sign

#9413 \$12.95

Perfect for use at public service and emergency communications support activities. Size 8 x 18-inches.

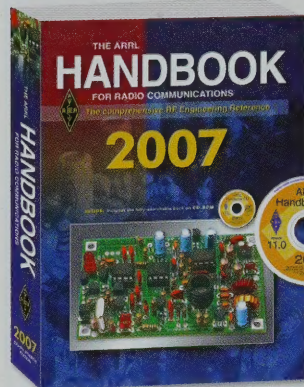


Internet Orders: www.arrl.org/shop

Technical



The ARRL Handbook for Radio Communications—2007



Hardcover. Includes book and CD-ROM (version 11.0), #9779 **\$59.95**

Softcover. Includes book and CD-ROM (version 11.0), #9760 **\$44.95**

Includes **The ARRL Handbook CD**—the fully searchable and complete book on CD-ROM!

Generations of hams have relied on **The Handbook** for its thorough coverage of theory, references and practical projects.

Complete Table of Contents

- Introduction to Amateur (Ham) Radio
- Activities in Amateur Radio
- Safety
- Electrical Fundamentals
- Electrical Signals and Components
- Real-World Component Characteristics
- Component Data and References
- Circuit Construction
- Modes and Systems
- Oscillators and Synthesizers
- Mixers, Modulators and Demodulators
- RF and AF Filters
- EMI / Direction Finding
- Receivers and Transmitters
- Transceivers, Transverters And Repeaters
- DSP and Software Radio Design
- Power Supplies
- RF Power Amplifiers
- Station Layout and Accessories
- Propagation of RF Signals
- Transmission Lines
- Antennas
- Space Communications
- Web, Wi-Fi, Wireless and PC Technology
- Test Procedures
- Troubleshooting and Repair

Experimental Methods in RF Design

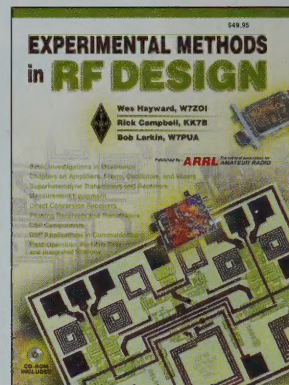
#8799 **\$49.95**

Immerse yourself in the communications experience by building equipment that contributes to understanding basic concepts and circuits. Explore wide dynamic range, low distortion radio equipment, the use of direct conversion and phasing methods, and digital signal processing. Use the models and discussion to design, build and measure equipment at both the circuit and the system level. Laced with unpublished projects and illustrated with CW and SSB gear.

CD-ROM included with design software, listings for DSP firmware, and supplementary articles.

Contents:

- Basic Investigations in Electronics
- Chapters on Amplifiers, Filters, Oscillators, and Mixers
- Super-heterodyne Transmitters and Receivers
- Measurement Equipment
- Direct Conversion Receivers
- Phasing Receivers and Transmitters
- DSP Components
- DSP Applications in Communications
- Field Operation, Portable Gear and Integrated Stations



Introduction to Radio Frequency Design

by Wes Hayward, W7ZOI

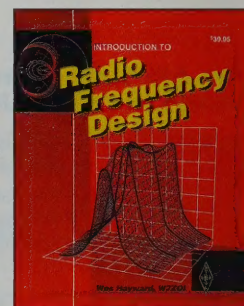
#4920 **\$39.95**

The fundamental methods of radio frequency design using mathematics as needed to develop intuition for RF circuits and systems. Simple circuit models are used to prepare you to actually design HF, VHF and UHF equipment.

First ARRL Edition, fourth printing
© 1994-2004.

Contents:

- Low Frequency Transistor Models
- Filter Basics
- Coupled Resonator Filters
- Transmission Lines
- Two-Port Networks
- Practical Amplifiers and Mixers
- Oscillators and Frequency Synthesizers
- The Receiver: an RF System



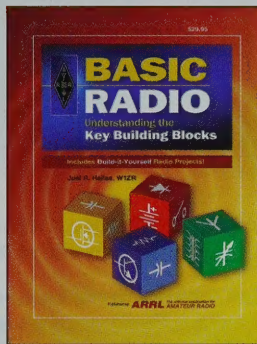
ARRL Publications

Basic Radio- Understanding the Key Building Blocks

By Joel Hallas, W1ZR

#9558 \$29.95

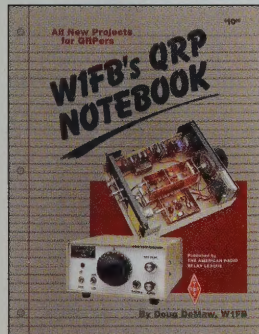
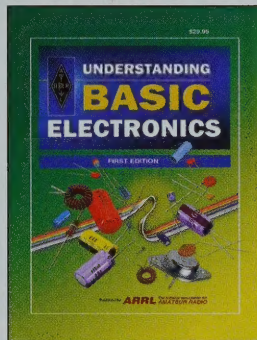
This is an introduction to radio for everyone. Reveals the key building blocks of radio: **receivers, transmitters, antennas, and propagation**. Includes simple, build-it-yourself projects to turn theory into practice.



Understanding Basic Electronics

#3983 \$29.95

The foundations taught in this book will prepare you for more advanced concepts in electronics. The text is written in an easy-to-understand style that nontechnical readers will enjoy. You don't have to be an engineer or a math whiz to enjoy the thrill of experimenting with electronics circuits!

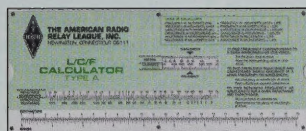


W1FB's QRP Notebook

by Doug DeMaw, W1FB

#3657 \$10

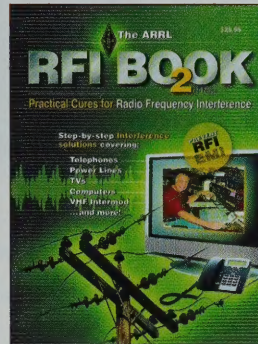
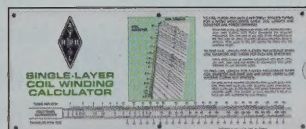
Experience first-hand the thrill of making contacts using equipment that you built!



L/C/F and Single-Layer Coil Winding Calculator

#9123 \$12.95

Use this handy slide rule when you're tinkering with filters, oscillators, impedance matching circuits or antenna coils and traps. Quick and easy circuit calculations.



The ARRL RFI Book

NEW!

2nd Edition

#9892 \$29.95

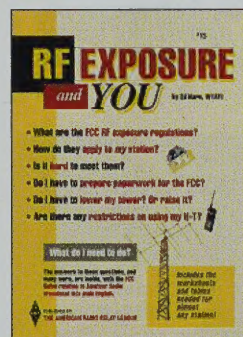
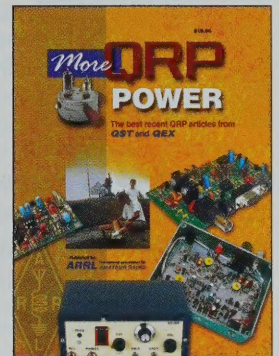
Advice on every type of radio frequency interference: automotive, television, computers, DVD players, audio equipment, and telephones. Resources for tackling power line noise, cable television interference, and RFI solutions for other electrical devices.

More QRP Power

#9655 \$19.95

Build a tiny station that you can take anywhere, or get on the air with a radio the size of a paperback book and an antenna that folds up into a briefcase or knapsack. Here are **more projects and articles for low power radio operating**, from the pages of *QST* and *QEX* magazines:

- Construction practices
- Transceivers
- Transmitters ■ Receivers
- Accessories ■ Antennas



RF Exposure and You

#6621 \$22.95

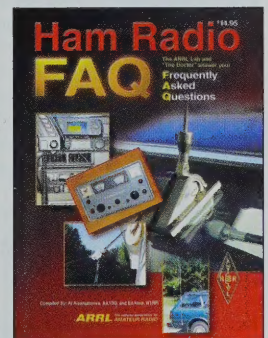
Meet the FCC RF exposure regulations! It's not complicated! Learn how to operate your station safely and legally using simple step-by-step ARRL worksheets and tables.

Ham Radio FAQ

The ARRL Lab and "The Doctor" answer your Frequently Asked Questions!

#8268 \$14.95

This book is a compilation of actual questions submitted to ARRL's Technical Information staff on: antennas; station setup and operation; mobile and portable operation; batteries and grounding; and more.

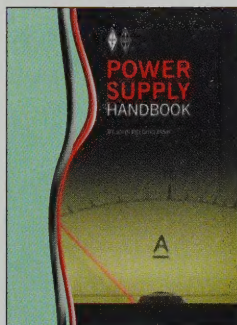


Internet Orders: www.arrl.org/shop

Call our toll-free number, 1-888-277-5289, to order or to find a dealer near you!

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Technical



Power Supply Handbook

By John Fielding, ZS5JF

#9977 \$29.95

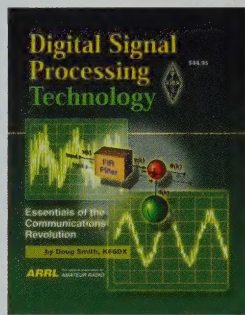
Gain the knowledge and confidence you need to understand and make power supplies of all types. Explains how power supplies work, selecting each component, building and modifying, measuring the finished supply, and more.

Digital Signal Processing Technology—Essentials of the Communications Revolution

by Doug Smith, KF6DX

#8195 \$44.95

The book begins with basic concepts, details digital sampling including fundamental and harmonic sampling, aliasing and mechanisms at play in real data converters, digital filter design, mathematics of modulation and demodulation, digital coding methods for speech and noise-reduction techniques, digital transceiver design, and other current topics.



The ARRL UHF/Microwave Experimenter's Manual

#3126 \$20

Written for the growing number of radio amateurs who are discovering that there is life on our frequencies above 420 MHz. Information on design and fabrication techniques, propagation, antennas and feed lines, transmission media and much more. 448 pages.

The ARRL UHF/Microwave Projects CD

#8853 \$24.95

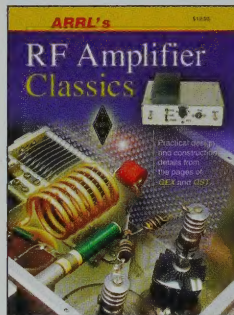
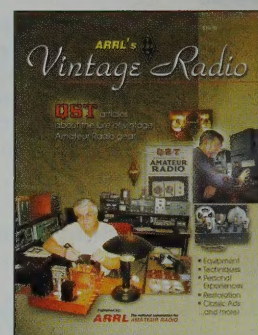
Practical projects, design and construction ideas. Assemble a high performance antenna or transverter without a room full of special test equipment and machine tools. Includes Volume 1 (1994) and Volume 2 (1997) of *The ARRL Microwave Projects Manuals*. Access a variety of tried and tested projects: transverters, preamplifiers, power amplifiers, antennas, test and measurement equipment, and more. CD-ROM requires Microsoft Windows 98 or later, or Macintosh.



ARRL's Vintage Radio

#9183 \$19.95

QST articles about the lure of vintage Amateur Radio gear: equipment, techniques, personal experiences, restoration, and classic *QST* ads. Includes "Old Radio" *QST* columns by John Dilks, K2TQN and other articles published between 1977 and 2003.



ARRL's RF Amplifier Classics

#9310 \$19.95

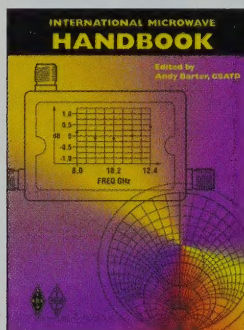
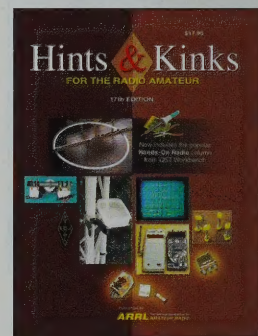
Two-dozen projects and articles to help shorten your discovery work. Find practical designs and construction details for classic tube and solid-state amplifiers at power levels from 5 W to 1.5 kW; amps for HF, MF, VHF and microwave. Build safe and reliable amplifiers. Produce loud and clean signals!

Hints and Kinks for the Radio Amateur

The best of Amateur Radio tips and techniques from the pages of *QST*—antennas, weekend projects, shack accessories and operating. And, now including articles from the columns **The Doctor is IN** and **Hands-On Radio**. Learn more about a new mode, or find your next construction project!

17th Edition #9361 \$17.95

16th Edition #8926 \$15.95



International Microwave Handbook

#8739 \$39.95

Contents: operating techniques; system analysis and propagation; microwave antennas; transmission lines and components; microwave semiconductors and valves; construction techniques; common equipment; test equipment; bands 1.3 GHz, 2.3 GHz, 3.4 GHz, 5.6 GHz, 10 GHz, 24 GHz, and above.

ARRL Publications

Antennas

**NEW!
21st
Edition**

The ARRL Antenna Book — 21st Edition

The ultimate reference for Amateur Radio antennas, transmission lines and propagation. #9876 \$44.95

The ARRL Antenna Book is THE SOURCE for current antenna theory and a wealth of practical, how-to construction projects. Extensively revised, and featuring antenna designs enhanced by the latest advances in computer modeling. Design, build and install any imaginable type of antenna—from the most simple wire varieties, to specialized or highly optimized arrays.

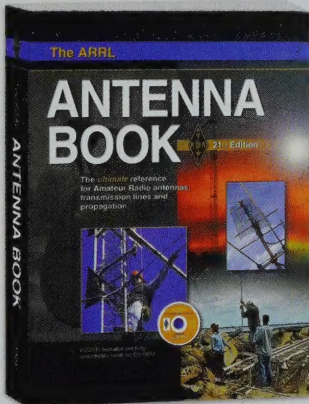
Fully searchable CD-ROM included

Bundled with this edition is the fully-searchable book on CD-ROM and additional software utilities*. The CD-ROM supports Windows™ and Macintosh systems. At your command is the entire book—every word and every page—PLUS pages of band-by-band propagation tables for locations around the world! Uses the widely popular Adobe® Acrobat® Reader software (included) to view, navigate, search and print from all chapters.

The CD-ROM contains additional utility programs, including:

- YW — Yagi for Windows
- TLW — Transmission Line for Windows
- HFTA — HF Terrain Assessment for Windows
- Range-Bearing — compute range/bearing or latitude/longitude
- Arrayfeed1 — designing phased-array feed systems
- EZNEC-ARRL — antenna modeling for Windows

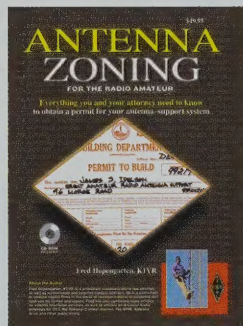
*CD-ROM System Requirements: Microsoft Windows 98 or later for PCs. Publication PDF files can be viewed on any Apple Macintosh computer that has Preview or Adobe Reader ver. 7 or 8 loaded. Additional software utilities are included, for Windows and DOS only.



Contents:

- Safety First
- Antenna Fundamentals
- The Effects of Ground
- Antenna Modeling and System Planning
- Loop Antennas
- Low-Frequency Antennas
- Multiband Antennas
- Multielement Arrays
- Broadband Antenna Matching
- Log Periodic Arrays
- HF Yagi Arrays
- Quad Arrays
- Long Wire and Traveling Wave Antennas
- Direction Finding Antennas
- Portable Antennas
- Mobile and Maritime Antennas
- Repeater Antenna Systems
- VHF and UHF Antenna Systems
- Antenna Systems for Space Communications
- Antenna Materials and Accessories
- Antenna Products Suppliers
- Antenna Supports
- Radio Wave Propagation
- Transmission Lines
- Coupling the Transmitter to the Line
- Coupling the Line to the Antenna
- Antenna and Transmission-Line Measurements
- Smith Chart Calculations

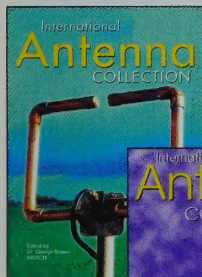
Includes a comprehensive glossary and index



Antenna Zoning for the Radio Amateur

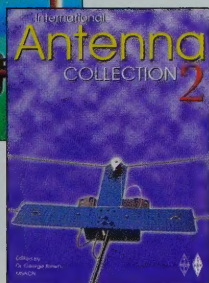
#8217 \$49.95

Proven techniques and strategies that a ham and his or her attorney can use to obtain an antenna-structure permit. **CD-ROM included** containing case law, sample letters you can customize, and additional precedent setting legal cases and reference material.



International Antenna Collection

Volume 1, #9156 \$19.95



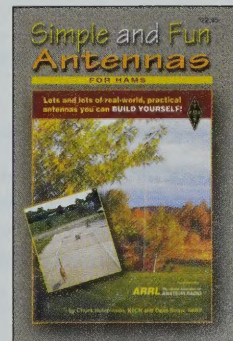
Volume 2, #9465 \$21.95

Collections of antenna designs from around the world—from 136 kHz to 1.3 GHz, receiving and transmitting, fixed and mobile designs.

Simple and Fun Antennas for Hams

#8624 \$22.95

More than 70 well-tested, fun and entirely useful projects. Hundreds of photos and illustrations. Build your first VHF or HF antenna. Explore dipoles, verticals, beams and more. **These antennas work!**



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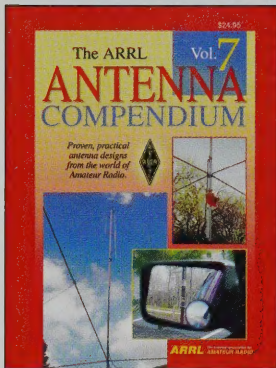
Antennas



The ARRL Antenna Compendium Volume 7

#8608 \$24.95

Proven, practical antenna designs from the world of Amateur Radio.



Hooray for antennas! This is the seventh in the very popular **ARRL Antenna Compendium** series. Inside, you'll find articles covering a very wide range of antenna-related topics:

- 30, 40, 80 and 160-Meter Antennas
- Measurements and Computations
- Mobile Antennas
- Multiband Antennas
- Practical Tips
- Propagation and Ground Effects
- Quad Antennas
- Special Antennas
- Stealth Antennas
- Tuners and Transmission Lines
- Vertical Antennas
- VHF/UHF Antennas
- Wire Antennas
- Yagi Antennas

And, this volume includes even more articles on low-band antennas and operating, and great designs for operating on the road—from cars, vans or motor homes.



**Online Classes
Available!**

Antenna Design and Construction EC-009

Antenna Modeling EC-004

Radio Frequency Propagation EC-011

Learn new skills and concepts. Experienced instructors provide online support. **New classes opening regularly.** Pre-register today.

More information at www.arrl.org/cce

More ARRL Antenna Compendiums

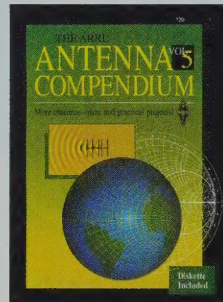
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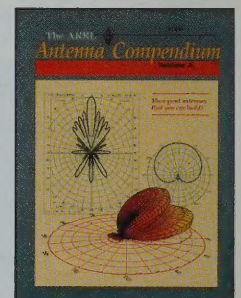
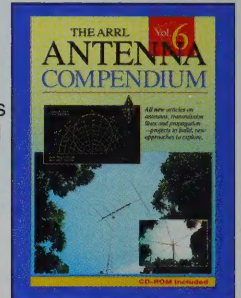
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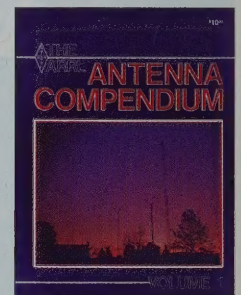
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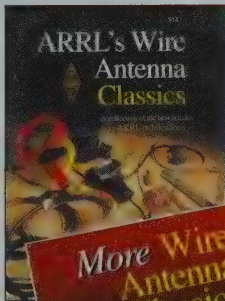
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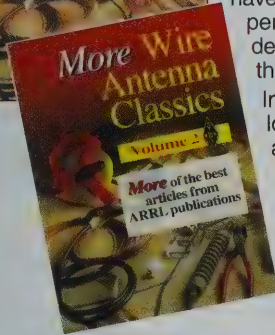
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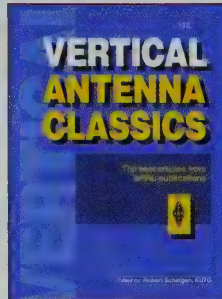
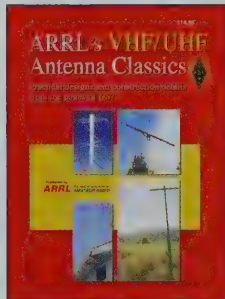


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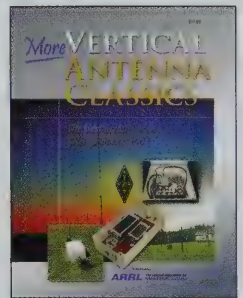
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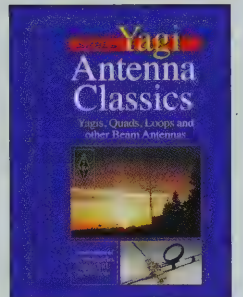
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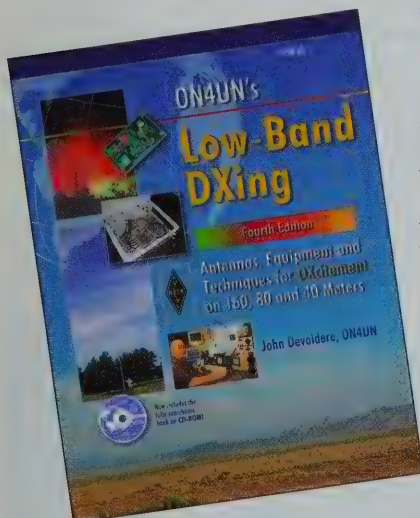
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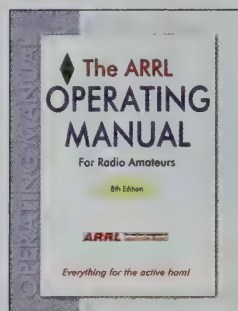


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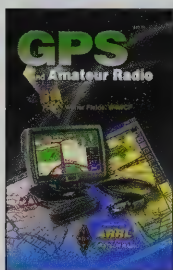
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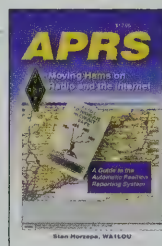


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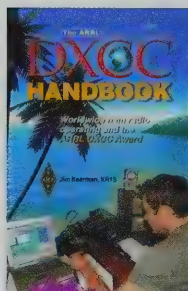
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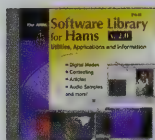
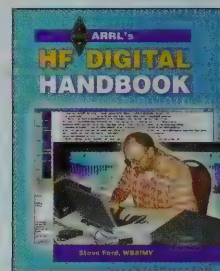


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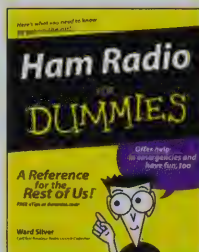
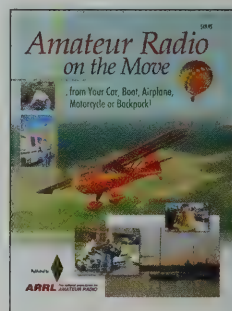
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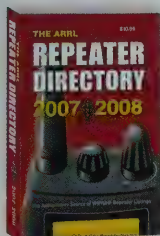
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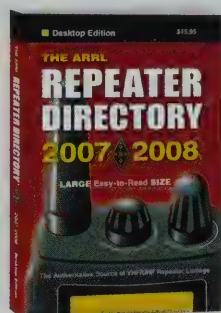
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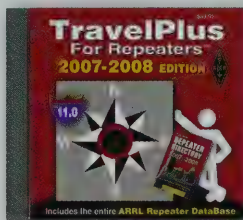
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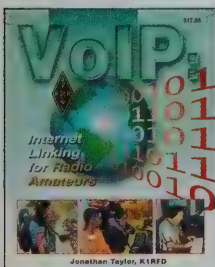


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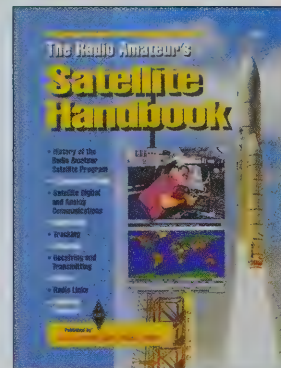
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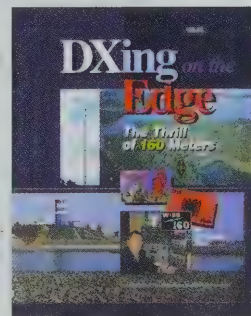
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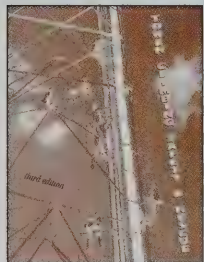
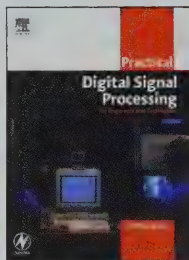
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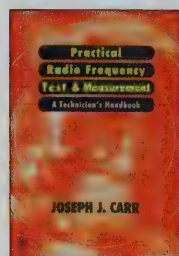
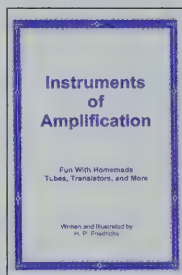


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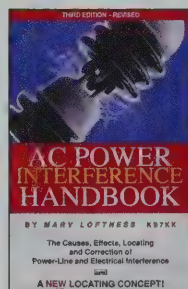
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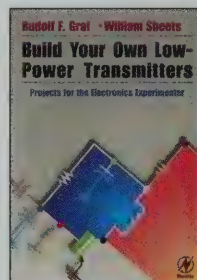
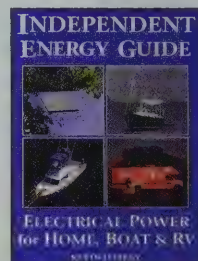
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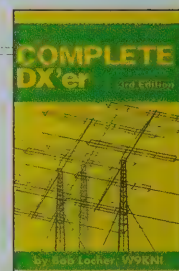
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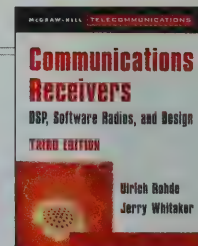
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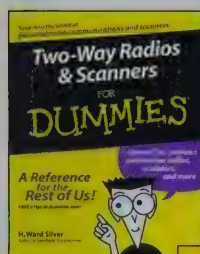
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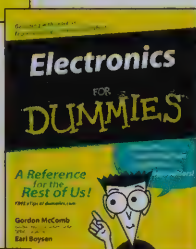
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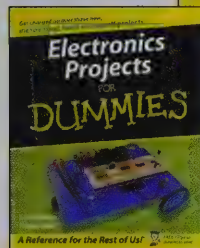
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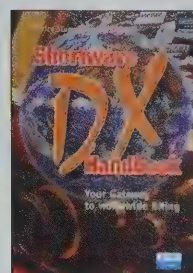
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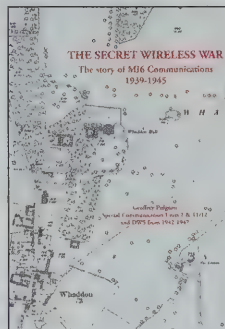
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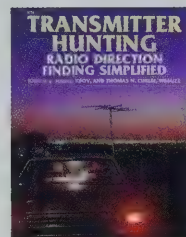
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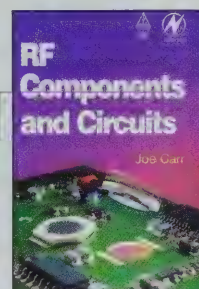
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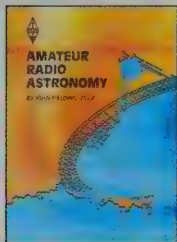
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RSGB Catalogue



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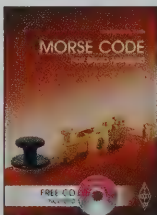
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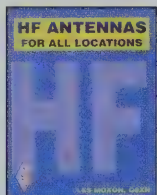
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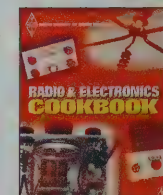
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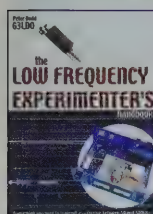
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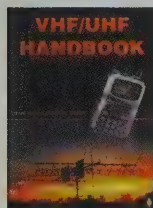
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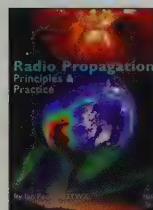
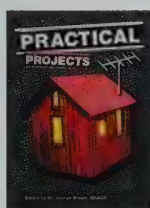
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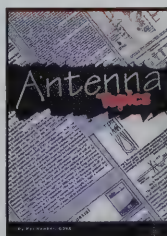
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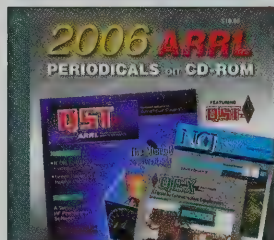
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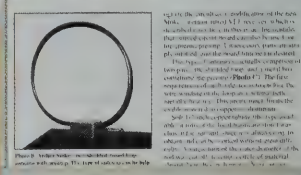
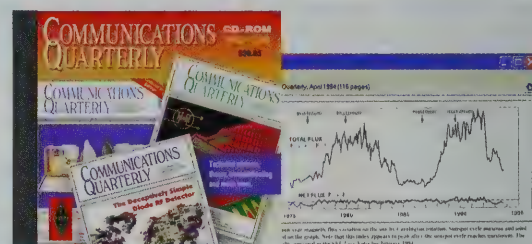
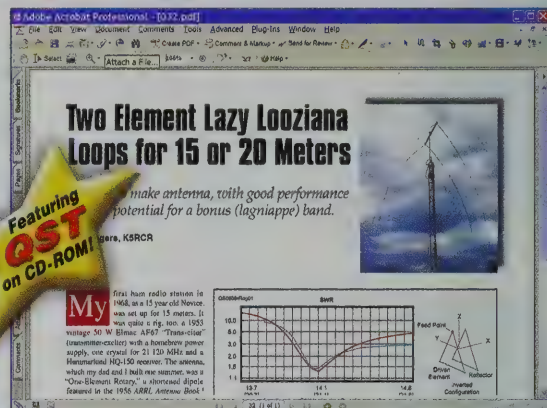
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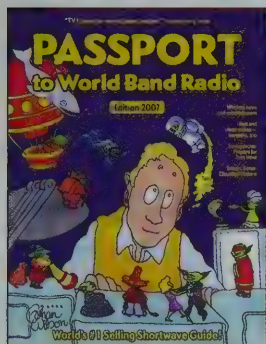
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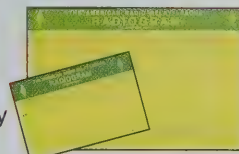
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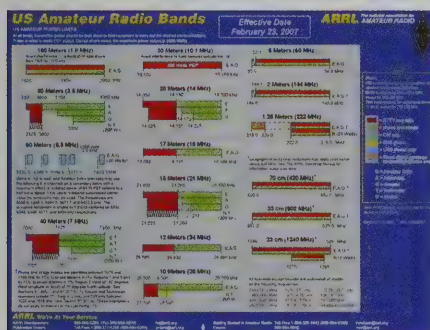
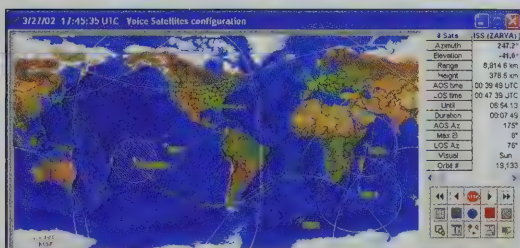
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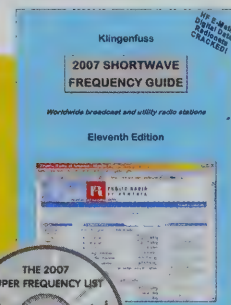
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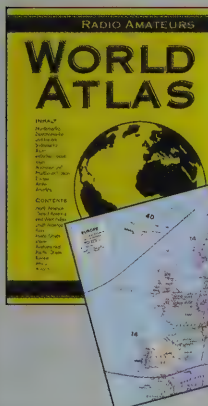


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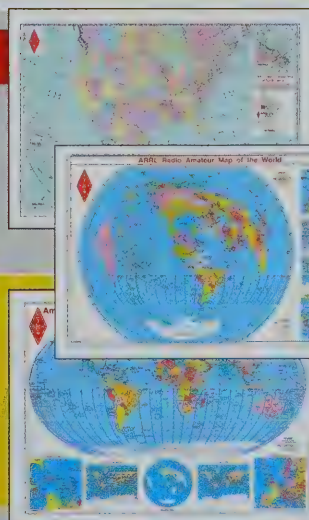
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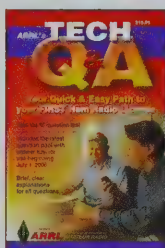
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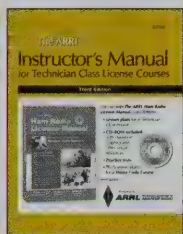
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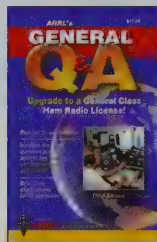
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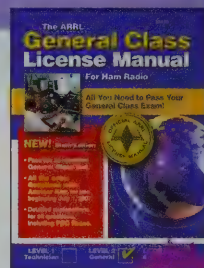
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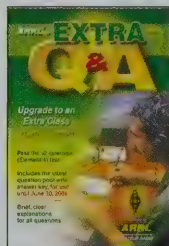
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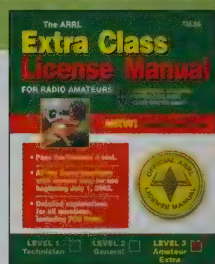
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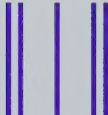


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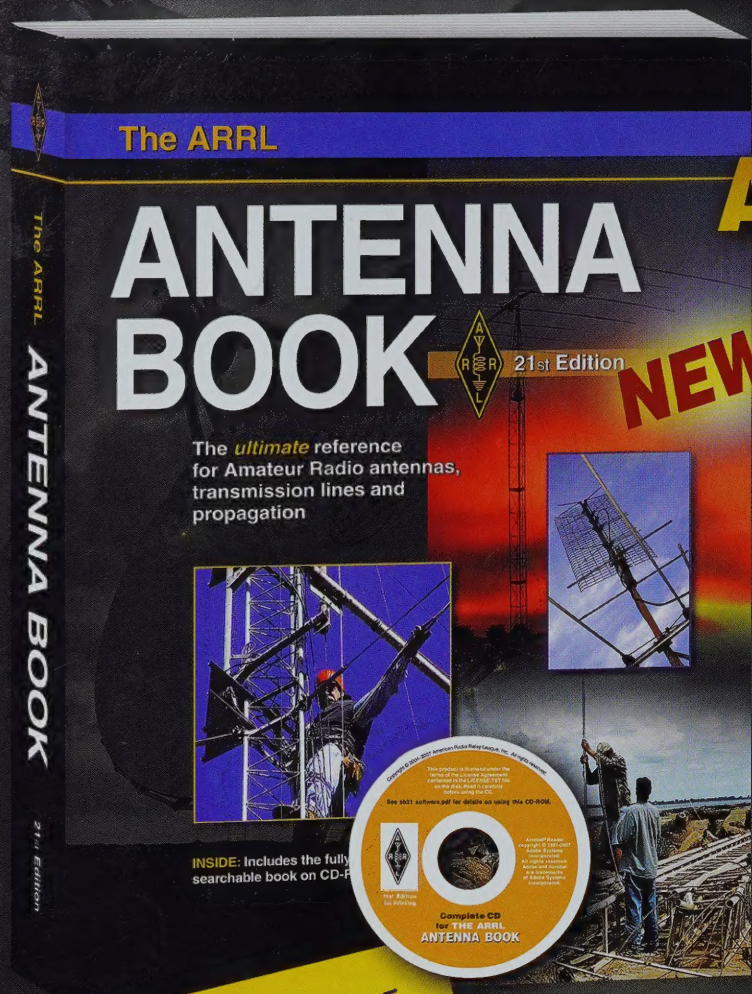
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